Tihese general characters only just serve to differentiate the **family**; but they illustrate its archaic character, in **which it resembles** the Xiphodontidae, and even **more** the Anthraco-**theriidae.** A survey of some of the genera which **have** been assigned to the **family** will bring out other features in the organisation of these very ancient Artiodactyles.

^A.noplotherinm is so **called on** account of the fact that it is, like **all** ancient **Artiodactyles,** without liorns or claws. Tusks it might **have,** but as a matter of fact lias not. There are, as **in Artiodactyles** generally, nineteen **dorso-lumbar** vertebrae; the long **tail** lias **numerous** chevrons. The shoulder Made has a **well-marked** acroinion and a distinct **coracoid** process; it is wide **proximally. The** bones **of** the fore-arm and fore-leg are* as is usual **in primitive** Artiodactyles, **separate.**

In the skull the chief **features,** in addition to **that mentioned in** tiie **definition of the family,** are **the** large size **of** the **par-occipitdl processes**; there is no fossa **luchryinalis** or deficiency in the side of the face. The **animal** is three-toed, both in the fore-**and hind-limbs.** The second toe is nearly as large as the **Artio-dactyle** third and fourth. There are **tiny rudiments** of the **two remaining'** fingers. The hind-foot is also three-toed, and there is a trace of the hallux. The fingers are so widely separated and divergent **from** each other that it has been suggested **that** the animal had webbed feet and inhabited marshes, in which it **swam** by the aid of its long tail. The creature was the size of a Tapir.

Closely **resembling** *^Anoplotheriufii* are a number of other genera.

Diplobune* («= *J&yracodontotheriuiri) was much like the last, but was a more delicately-formed animal. The fingers and toes (three of each) end in such sharply-pointed phalanges that claws seem, to be almost suggested. There are several species of this genus. *Dacrytherium* differs by the presence of a lachrymal fossa.

DwJio'buTie has four-toed **extremities,** of which the lateral ones are more slender and shorter than the two middle ones. As in other Anoplotheriidae, the anterior premolars are furnished with a sharp cutting edge.

Order V.

Aquatic Mamnaalia, with but few scattered hairs; hind-limbs
absent; fore-limbs paddle-shaped ; tail flattened* and either Whale-